

U.S. Department of Commerce, Patent and Trademark Office				Docket No.: 7096/SYNX/SYNX/JW		Serial No.: 10/650,479	
<b>LIST OF RELEVANT ART CITED BY APPLICANT</b> (Use several sheets if necessary)				Applicants: Martin R. Elliott, et al			
Filing Date: August 28, 2003				Group: 3652			

OIPE  
 MAY 24 2006  
 PATENT & TRADEMARK OFFICE

U.S. Patent Documents							
*Examiner Initial	Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate	
	US-1	5,110,249	05/05/92	Arthur E. Norman			
	US-2	6,036,426	03/14/00	Gary Hillman			
	US-3	6,183,186	02/06/01	Peltola et al.			
	US-4	6,142,722	11-2000	Genov et al.			
	US-5	6,304,051	10-2001	Sagues et al.			
	US-6	6,379,096	04-2002	Beutler et al.			
	US-7	6,468,021	10-2002	Bonora et al.			
	US-8	6,042,324	03/28/00	Aggarwal et al.			
	US-9	5,980,183	11/09/99	Fosnight			
	US-10	5,628,604	05/13/97	Murata et al.			
	US-11	5,387,265	02/07/95	Kakizaki et al.			

Foreign Patent Documents							Translation	
Document Number	Date	Country	Class	Subclass	Yes	No		
F-1	JP 10-256346	09/25/98	Japan		X			
F-2	EP 0 277 536	08/10/88	EPO		Abstract			
F-3	WO 99/60614	11/25/99	PCT		X			
F-4	WO 99/54921	10/28/99	PCT		X			
F-5	WO 99/02436	01/21/99	PCT		X			

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
OT-1	
OT-2	
OT-3	

Examiner	Date Considered
----------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

U.S. Department of Commerce, Patent and Trademark Office  <b>LIST OF RELEVANT ART CITED BY APPLICANT</b> (Use several sheets if necessary)	<b>Docket No.:</b> 7096/SYNX/SYNX/JW	<b>Serial No.:</b> 10/650,479
	<b>Applicants:</b> Martin R. Elliott, et al	
	<b>Filing Date:</b> August 28, 2003	<b>Group:</b> 3652

## U.S. Patent Documents

*Examiner Initial		Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate
/ML/	US-12	5,246,218	09/1993	Yap et al.			
	US-13	6,079,927	06/2000	Muka			
	US-14	5,064,337	11/1991	Asakawa et al.			
	US-15	4,964,776	10/1990	Wakita et al.			
	US-16	5,955,857	09/21/99	Kwon et al.			
	US-17	5,586,585	12/24/96	Bonora et al.			
	US-18	6,579,052	06/17/03	Bonora et al.			
	US-19	6,481,558	11/19/02	Bonora et al.			
	US-20	6,435,330	08/20/02	Bonora et al.			
	US-21	6,506,009 B1	01/14/03	Nulman et al.			
	US-22	6,955,517 A1	10/18/05	Nulman et al.			

Foreign Patent Documents  
Translation

		Document Number	Date	Country	Class	Subclass	Yes	No
/ML/	F-6	WO 98/46503	10/22/98	PCT			X	
	F-7							
	F-8							
	F-9							
	F-10							

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	OT-4	
	OT-5	
	OT-6	

Examiner	Date Considered
----------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

U.S. Department of Commerce, Patent and Trademark Office  <b>LIST OF RELEVANT ART CITED BY APPLICANT</b> (Use several sheets if necessary)				Docket No.: 7096/SYNX/SYNX/JW		Serial No.: 10/650,479	
				Applicants: Martin R. Elliott, et al			
				Filing Date: August 28, 2003		Group: 3652	

U.S. Patent Documents							
*Examiner Initial	Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate	
/ML/	US-23	5,388,945	02/14/95	Garric et al.			
/ML/	US-24	5,788,447	08/04/98	Yonemitsu et al.			
	US-25	6,042,324	03/28/00	Aggarwal et al.			
	US-26						
	US-27						
	US-28						
	US-29						
	US-30						
	US-31						
	US-32						
	US-33						

Foreign Patent Documents Translation								
	Document Number	Date	Country	Class	Subclass	Yes	No	
	F-11							
	F-12							
	F-13							
	F-14							
	F-15							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
	OT-7
	OT-8
	OT-9

Examiner /Michael Lowe/ (04/10/2007)	Date Considered 04/10/2007
---	-------------------------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

U.S. Department of Commerce, Patent and Trademark Office  <b>LIST OF RELEVANT ART CITED BY APPLICANT</b> (Use several sheets if necessary)				Docket No.: 7096/Y01/SYNX/SYNX/HMM		Serial No.: 10/650,479	
				Applicants: Martin R. Elliott, et al.			
				Filing Date: August 28, 2003		Group: 3652	

OFFICE  
NOV 03 2006  
PATENT & TRADEMARK

U.S. Patent Documents							
Examiner Initial	Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate	
/ML/	US-1	4,006,813	02/08/77	Rene Fluck			
↓	US-2	4,166,527	09/04/79	Earl F. Beezer			
↓	US-3	4,222,479	09/16/80	Dugan, et al.			
↓	US-4	4,294,344	10/13/81	Johannes D. van Maanen			
↓	US-5	4,538,720	09/03/85	Jean-Louis Limousin			
↓	US-6	4,552,261	11/12/85	Raudat, et al.			
↓	US-7	4,584,944	04/29/86	Clarence A. Dehne			
↓	US-8	4,653,630	03/31/87	Anna Bravin			
↓	US-9	4,679,685	07/14/87	Kenji Inoko			
↓	US-10	4,702,365	10/27/87	Chong-Il Pak			
↓	US-11	4,708,727	11/24/87	Cardenas-Franco, et al.			

Foreign Patent Documents							Translation	
Document Number	Date	Country	Class	Subclass	Yes	No		
/ML/ F-1	JP 02098157 A	04/10/90	Japan		Abstract			
↓ F-2	JP 00062949 A	02/29/00	Japan		Abstract			
↓ F-3	JP 00335799 A	12/05/00	Japan		Abstract			
↓ F-4	WO 97/09256 A1	03/13/97	WIPO		Abstract			
↓ F-5	WO 00/69724 A1	11/23/00	WIPO		X			

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
/ML/	OT-1 Virvalo, T.K., "Cylinder Speed Synchronization", Dec. 1978, Hydraulics and Pneumatics, Vol. 31, No. 12, pages 55-57.
↓	OT-2 Cheng, et al., "Adaptive Synchronization Control of a Robotic Manipulator Operating in an Intelligent Workcell", April 1990, IEEE Transactions on Industrial Electronics, Vol. 37, No. 2, pages 119-126.
↓	OT-3 Shih-Hung Li, et al. "An Ultrahigh Speed Assembly Robot System. Part I. Design", 1994, Proceedings 1994 Japan-U.S.A. Symposium on Flexible Automation - A Pacific Rim Conference, Vol. 2, pages 465-72.

Examiner	Date Considered
----------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

<b>U.S. Department of Commerce, Patent and Trademark Office</b>  <b>LIST OF RELEVANT ART CITED BY APPLICANT</b> (Use several sheets if necessary)				<b>Docket No.:</b> 7096/Y01/SYNX/SYNX/HMM		<b>Serial No.:</b> 10/650,479	
				<b>Applicants:</b> Martin R. Elliott, et al.			
				<b>Filing Date:</b> August 28, 2003		<b>Group:</b> 3652	

U.S. Patent Documents							
*Examiner Initial	Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate	
/ML/	US-12	4,720,006	01/19/88	Harald Lenherr			
↓	US-13	4,750,605	06/14/88	Brems, et al.			
↓	US-14	4,852,717	08/01/89	Ross, et al.			
↓	US-15	4,901,843	02/20/90	Jeffrey A. Lashyro			
↓	US-16	4,921,092	05/01/90	Crawford, et al.			
↓	US-17	5,052,544	10/01/91	David L. Anderson			
↓	US-18	5,092,450	03/03/92	Schommartz, et al.			
↓	US-19	5,341,915	08/30/94	Cordia, et al.			
↓	US-20	5,560,471	10/01/96	Prochut, et al.			
↓	US-21	5,664,254	09/02/97	Ohkura, et al.			
↓	US-22	5,782,338	07/21/98	Schuster, et al.			

Foreign Patent Documents							Translation	
/ML/	Document Number	Date	Country	Class	Subclass	Yes	No	
↓	F-6	EP 0717717 B1	07/07/99	EPO		X		
↓	F-7	EP 00735927 B1	11/03/99	EPO		Abstract		
↓	F-8	EP 00912426 B1	08/09/00	EPO		Abstract		
↓	F-9	EP 0 663 686 B1	06/18/97	EPO		X		
↓	F-10	EP 0 663 686 A1	07/19/95	EPO		X		

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
/ML/	OT-4 Roberts, et al., "Feed Chute Geometry for Minimum Belt Wear", Sept. 1998, 6th International Conference on Bulk Materials Storage, Handling and Transportation, pages 153-159.
↓	OT-5 Saigo, et al., "Drive Control Systems for Processing Lines", 11/10/2000, Fuji Jiho (Fuji Electric Journal), Vol. 73, No. 11, pages 45-49, Japanese language (Abstract only).
↓	OT-6 Saigo, K., "Variable-speed Drive Systems for Industrial Plants", 11/10/2000, Fuji Jiho (Fuji Electric Journal), Vol. 73, No. 11, pages 10-14, Japanese language (Abstract only).

Examiner	Date Considered
----------	-----------------

**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

<b>U.S. Department of Commerce, Patent and Trademark Office</b>  <b>LIST OF RELEVANT ART CITED BY APPLICANT</b> (Use several sheets if necessary)				<b>Docket No.:</b> 7096/Y01/SYNX/SYNX/HMM		<b>Serial No.:</b> 10/650,479	
				<b>Applicants:</b> Martin R. Elliott, et al.			
				<b>Filing Date:</b> August 28, 2003		<b>Group:</b> 3652	

U.S. Patent Documents							
*Examiner Initial	Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate	
/ML/	US-23	5,797,249	08/25/98	Thomas Patterson Hartness			
	US-24	5,829,574	11/03/98	Mario DelSanto			
	US-25	5,865,292	02/02/99	Aguilar, et al.			
	US-26	5,887,701	03/30/99	Mario Spatafora			
	US-27	6,209,710	04/03/01	Mueller, et al.			
	US-28	6,227,346	05/08/01	Lecomte, et al.			
	US-29	6,227,348	05/08/01	Frei, et al.			
	US-30	6,234,300	05/22/01	De Vos, et al.			
	US-31	1,639,758	08/08/27	Jervis B. Webb			
	US-32	1,906,036	04/08/33	William E. Wunderlich			
	US-33	2,153,071	04/08/39	Leonard J. Bishop			

Foreign Patent Documents							Translation	
Document Number	Date	Country	Class	Subclass	Yes	No		
F-11								
F-12								
F-13								
F-14								
F-15								

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
/ML/	OT-7	Park, et al., "Task Sequence Optimization for a Dual-Robot Assembly System using Evolutionary Algorithms", 2001, Proceedings of the Institution of Mechanical Engineers, Part B (Journal of Engineering Manufacture), Vol. 215, No. B6, pages 835-46.
	OT-8	
	OT-9	

Examiner	Date Considered
----------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

<b>U.S. Department of Commerce, Patent and Trademark Office</b>  <b>LIST OF RELEVANT ART CITED BY APPLICANT</b> (Use several sheets if necessary)				<b>Docket No.:</b> 7096/Y01/SYNX/SYNX/HMM		<b>Serial No.:</b> 10/650,479	
				<b>Applicants:</b> Martin R. Elliott, et al.			
				<b>Filing Date:</b> August 28, 2003		<b>Group:</b> 3652	

U.S. Patent Documents							
*Examiner Initial	Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate	
/ML/	US-34	2,949,996	08/08/60	Roger Tonelli			
	US-35	3,058,604	10/08/62	Harper, et al.			
	US-36	3,131,801	05/08/64	Augusto Marchetti			
	US-37	3,184,032	05/08/65	John Petter Ingemar Jonsson			
	US-38	3,587,817	06/08/71	Bornstein, et al.			
	US-39	3,610,448	10/08/71	Ulrich Bornfleth			
	US-40	4,730,733	03/08/88	Kawamura, et al.			
	US-41	4,936,438	06/08/90	Glenn Waineo			
	US-42	4,534,843	08/13/85	Johnson et al.			
↓	US-43	6,309,279	07/10/01	Bowman et al.			
	US-44	5,460,478	10/08/95	Akimoto et al.			

Foreign Patent Documents							Translation	
Document Number	Date	Country	Class	Subclass	Yes	No		
F-16								
F-17								
F-18								
F-19								
F-20								

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
OT-10	
OT-11	
OT-12	

Examiner	Date Considered
----------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

<b>U.S. Department of Commerce, Patent and Trademark Office</b>  <b>LIST OF RELEVANT ART CITED BY APPLICANT</b> (Use several sheets if necessary)				<b>Docket No.:</b> 7096/Y01/SYNX/SYNX/HMM		<b>Serial No.:</b> 10/650,479	
				<b>Applicants:</b> Martin R. Elliott, et al.			
				<b>Filing Date:</b> August 28, 2003		<b>Group:</b> 3652	

U.S. Patent Documents							
*Examiner Initial	Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate	
/ML/	US-45	5,957,648	09/08/99	Bachrach			
	US-46	6,826,986	12/08/04	Lim et al.			
	US-47	2004/0062633 A1	04/08/04	Rice et al.			
	US-48	2005/0095110 A1	05/08/05	Lowrance et al.			
	US-49	2004/0081538 A1	04/08/04	Rice et al.			
	<del>US-50</del>	<del>2004/0082546</del>	<del>04/08/04</del>	<del>Elliott et al.</del>			
/ML/	US-51	2004/0193300	09/08/04	Rice et al.			
/ML/	US-52	2004/0081545	04/08/04	Elliott et al.			
	<del>US-53</del>	<del>2004/0076596</del>	<del>04/08/04</del>	<del>Elliott et al.</del>			
/ML/	US-54	5,332,013	07-1994	Sugita et al.			
/ML/	US-55	6,699,329	03-2004	Mueller et al.			

Foreign Patent Documents							Translation	
Document Number	Date	Country	Class	Subclass	Yes	No		
F-21								
F-22								
F-23								
F-24								
F-25								

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
OT-13	
OT-14	
OT-15	


Examiner:	Date Considered
-----------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.



U.S. Department of Commerce, Patent and Trademark Office  <b>LIST OF RELEVANT ART CITED BY APPLICANT</b> (Use several sheets if necessary)				Docket No.: 7096/Y01/SYNX/SYNX/HMM		Serial No.: 10/650,479	
				Applicants: Martin R. Elliott, et al.			
				Filing Date: August 28, 2003		Group: 3652	

U.S. Patent Documents							
*Examiner Initial	Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate	
/ML/	US-56	6,919,001	07-2005	Fairbairn et al.			
	US-57	4,805,759	02-1989	Rochet et al.			
	US-58	5,570,990	11-1996	Bonora et al.			
	US-59	6,524,463	02-2003	Gramarossa et al.			
	US-60	5,411,358	05/02/95	Garric et al.			
	US-61	6,026,561	02/22/00	Lafond			
	US-62	5,884,392	03/23/99	Lafond			
	US-63						
	US-64						
	US-65						
	US-66						

Foreign Patent Documents							Translation	
Document Number	Date	Country	Class	Subclass	Yes	No		
F-26								
F-27								
F-28								
F-29								
F-30								

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
OT-16	
OT-17	
OT-18	

Examiner /Michael Lowe/ (04/10/2007)	Date Considered 04/10/2007
---	-------------------------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.